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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/812,449	03/29/2004	Pauline Maria Foster-Hamilton	0707-00342 - G00342/US	3169	
35758	7590 02/28/2006		EXAMINER		
	ELINE NORTH AMER	DUNWOODY, AARON M			
• • • • • • • • • • • • • • • • • • • •	RSITY DRIVE LLS, MI 48326	ART UNIT	PAPER NUMBER		
	,		3679		
			DATE MAIL ED. 02/29/2004	•	

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Applica	Application No. Applicant(s)					
		10/812,	449	FOSTER-HAMILT	FOSTER-HAMILTON ET AL.			
		Examin	er	Art Unit				
			I. Dunwoody	3679				
Period fo	The MAILING DATE of this communic or Reply	ation appears on t	he cover sheet w	ith the correspondence ad	idress			
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FO CHEVER IS LONGER, FROM THE MA asions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commuter to reply is specified above, the maximum stature to reply within the set or extended period for reply with the set	ILING DATE OF 37 CFR 1.136(a). In no inication. tory period will apply and II, by statute, cause the a	THIS COMMUNI event, however, may a will expire SIX (6) MOI pplication to become A	CATION. reply be timely filed NTHS from the mailing date of this c BANDONED (35 U.S.C. § 133).	•			
Status								
1) 又	Responsive to communication(s) filed	on 07 February 2	006.					
	his action is FINAL . 2b)⊠ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🖂	4)⊠ Claim(s) <u>1-26</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	Claim(s) is/are allowed.							
6)⊠	☑ Claim(s) <u>1-26</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restriction	on and/or election	requirement.					
Applicati	on Papers							
9)	The specification is objected to by the	Examiner.						
10)	The drawing(s) filed on is/are: a	a) accepted or l	o) objected to	by the Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
	Replacement drawing sheet(s) including the		_	· · · · · · · · · · · · · · · · · · ·				
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority ι	ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
	3. Copies of the certified copies of the priority documents have been received in this National Stage							
	application from the Internation	·						
· S	See the attached detailed Office action	for a list of the ce	ranea copies not	received.				
Attachmen	t(s)							
	e of References Cited (PTO-892)			Summary (PTO-413)				
	e of Draftsperson's Patent Drawing Review (PTO mation Disclosure Statement(s) (PTO-1449 or P			(s)/Mail Date Informal Patent Application (PT0	O-152)			
	r No(s)/Mail Date	. 0.00.00)	6) Other:		•			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 2/7/2006 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-26 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by US patent 6585601, Booker et al.

In regards to claim 1, in Figure 1, Booker et al disclose an improved boot for use in sealing a constant velocity joint and ball spline joint assembly, the boot comprising:

a plurality of articulating convolutes;

a grease catching member;

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a first stabilizing member joining the plurality of articulating convolutes and the grease catching member;

a plurality of plunging convolutes; and

a second stabilizing member joining the plurality of plunging convolutes and the grease catching member.

In regards to claim 2, in Figure 1, Booker et al disclose the articulating convolutes selectively accommodate joint articulation to an angle of at least 15 degrees.

In regards to claim 3, in Figure 1, Booker et al disclose the plunging convolutes selective accommodate joint plunge of at least 45 mm.

In regards to claim 4, in Figure 1, Booker et al disclose the first stabilizing member selectively circumscribing an inner race of the ball spline joint by about 1 mm.

In regards to claim 5, in Figure 1, Booker et al disclose the second stabilizing member selectively circumscribes an outer race of the ball spline joint.

In regards to claim 6, in Figure 1, Booker et al disclose the constant velocity joint being a high speed fixed joint.

In regards to claim 7, in Figure 1, Booker et al disclose the boot selectively accommodating vehicle installation at an angle of at least 15 degrees.

In regards to claim 8, in Figure 1, Booker et al disclose the boot selectively accommodating joint operation up to approximately 7 degrees and 9000 revolutions per minute.

In regards to claim 9, in Figure 1, Booker et al disclose the boot being adapted to accommodate compressive plunge of at least 15 mm and extension of 30 mm.

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In regards to claim 10, in Figure 1, Booker et al disclose the boot being adapted to accommodate joint plunge of at least 45 mm.

In regards to claim 11, Booker et al disclose the boot being comprised of a thermoplastic material.

In regards to claim 12, in Figure 1, Booker et al disclose an improved joint assembly, comprising:

a constant velocity joint having an constant velocity inner race and a constant velocity outer race, wherein at least one of;

a ball spline joint selectively affixed to the constant velocity joint, the ball spline joint having an inner race and an outer race; and

a boot affixable to the constant velocity joint and the ball spline joint to seal and house the combined joints, the boot comprising:

a plurality of articulating convolutes; a grease catching member;

a first stabilizing member joining the plurality of articulating convolutes and the grease catching member;

a plurality of plunging convolutes; and

a second stabilizing member joining the plurality of plunging convolutes and the grease catching member.

In regards to claim 13, in Figure 1, Booker et al disclose the constant velocity joint being a high speed fixed joint.

In regards to claim 14, in Figure 1, Booker et al disclose the assembly being adapted for use in a propshaft.

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In regards to claim 15, in Figure 1, Booker et al disclose the articulating convolutes being adapted to accommodate joint articulation to an angle of at least 15 degrees.

In regards to claim 16, in Figure 1, Booker et al disclose the plunging convolutes being adapted to accommodate joint plunge to at least 45 mm.

In regards to claim 17, in Figure 1, Booker et al disclose the first stabilizing member being adapted to ride approximately 1 mm above the inner race of the ball spline joint.

In regards to claim 18, in Figure 1, Booker et al disclose the second stabilizing member being adapted to ride approximately 1 mm above the outer race of the ball spline joint.

In regards to claim 19, in Figure 1, Booker et al disclose the boot being adapted to accommodate vehicle installation at an angle up to approximately 15 degrees.

In regards to claim 20, in Figure 1, Booker et al disclose the boot being adapted to accommodate joint operation of up to approximately 7 degrees and 9000 resolutions per minute.

In regards to claim 21, in Figure 1, Booker et al disclose the boot being adapted to accommodate crash plunge of at least 30 mm extension and 15 mm compression.

In regards to claim 22, in Figure 1, Booker et al disclose the boot being adapted to accommodate joint plunge of at least 45 mm.

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In regards to claim 23, in Figure 1, Booker et al disclose an improved boot for use in sealing a high speed fixed joint and ball spline joint assembly, the boot comprising:

a plurality of articulating convolutes adapted to accommodate joint articulation of up to approximately 15 degrees;

a grease catching member;

a first stabilizing member joining and contiguous with the plurality of articulating convolutes and the grease catching member, the first stabilizing member adapted to ride approximately 1 mm above an inner race of the ball joint to provide stability at high speed;

a plurality of plunging convolutes adapted to accommodate joint plunge up to approximately 45 mm; and

a second stabilizing member joining and contiguous with the plurality of plunging convolutes and the grease catching member, the second stabilizing member adapted to ride approximately 1 mm above an outer race of the ball spline joint to provide additional stability.

In regards to claim 24, in Figure 1, Booker et al disclose an external diameter of the grease catching member being generally greater than external diameters of either the first stabilizing member or the second stabilizing member.

In regards to claim 25, in Figure 1, Booker et al disclose an external diameter of the first stabilizing member being generally less than an external diameter of either the second stabilizing member of the outer race of the ball spline joint.

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In regards to claim 26, in Figure 1, Booker et al disclose a shaft portion interconnecting at least one of the constant velocity inner race and the constant velocity outer race with at least one of the outer race and the inner race of the ball spline joint.

Response to Arguments

Applicant's lack of arguments filed 2/7/2006 have been fully considered but they are not persuasive.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aaron M. Dunwoody whose telephone number is 571-272-7080. The examiner can normally be reached on 7:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel P. Stodola can be reached on 571-272-7087. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Aaron M Dunwoody Primary Examiner Art Unit 3679